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TRACTOR, SKID-STEER ENDLOADER, 1,350 LB. OPERATING CAPACITY

I.	and is	year, 2 install ice into ne City	2,000 hour warran without charge wiended. All warran	nty to cover all come thin the warranty and ty work shall be pick thin 48 hours of con	essful bidder shall be ponents furnished. In y defective parts on the ked up by the vend appletion of repairs.	The vendor shal r any parts not so or within 48 hou Warranty period	l agree to replace uitable for the ars of notification I to begin when
						Comply	Exception
II.	I. <u>SERVICE FACILITIES</u> : In order to insure that the City will be able to maintain and repair equipment purchased, the vendor shall operate a service facility capable of performing most repair associated with the equipment they represent. This facility shall be located within 30 miles of the City of Milwaukee, and be stocked with common replacement and high wear parts, as may be designated by the equipment manufacturer, and approved by the City.					ng most repairs 0 miles of the	
			Nam	e of Facility			
				Address			
			Contact Na	me/Number			
III.		<u>SERVICE REQUIREMENTS</u> : The equipment to be purchased under this specification will be used by the City for the handling of materials with various buckets or implements.					
IV. <u>TECHNICAL REQUIREMENTS</u> : All features below shall be incorporated in the equip items furnished and installed into a complete unit ready for operation.				quipment and all			
	A. <u>TYPE</u> : Heavy-duty four wheel driven skid-steer endloader. An acceptable make and model as follows, all others proposed shall be equal to, or exceed it:				ake and model is		
		New	Holland L150	Make/Model_			
		1.	RATED OPERA	ATING CAPACITY	<u>Y</u> : Minimum 1,350	lbs. SAE rated o	perating load.
					Operating	Capacity	Lbs.
		2.	TIPPING LOAD	<u>O</u> : Minimum 2,700	lbs. SAE rated, prio	r to counterweig	tht installation.
					Тірр	oing Load	Lbs.
		3.	OPERATING W	<u>/EIGHT</u> : Minimum	n 4,500 lbs. SAE rat <i>Operatin</i>	ed. 19 Weight	Lbs.
	B.	DIM	<u>IENSIONS</u> :				
		1.	LENGTH: Appr	oximately 120", wi	th bucket.	I onath	

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	2.	<u>WIDTH</u> : Approximately 60", without bucket, including tire width. <i>Width</i>		
	3.	WHEELBASE: Approximately 38".		
	4.	HEIGHT TO TOP OF CAB: Approximately 73" from g	_	cab.
			Height_	
	5.	HEIGHT TO RAISED HINGE PIN: Minimum 111". Hinge	e Pin Height_	
C.		GINE: Diesel powered, liquid cooled engine, minimum 91 mum 35 to maximum 39 gross horsepower.	cubic inch disp	lacement,
		Engine Make/Model		
		Liters Cubic Inches	HP	@ RPM
	1.	FILTERS: Air, oil, and fuel, with a Filter Minder air filter	er restriction in	dicator.
	2.	STARTING AID: A City approved cold weather starting		Exception
	3.	<u>COOLING SYSTEM</u> : Of adequate capacity for continuous antifreeze protected to –35° F.		Exception
		antimeeze protected to –33 T.	Comply	Exception
	4.	FUEL TANK: 8-gallon minimum capacity, containing a time of delivery to the City. Fuel Tank Capacity		
	5.	THROTTLE: Adjustable type hand throttle control.		Exception
	6.	MUFFLER: Spark arrestor type, with horizontal discharge	ge.	Exception
D.	thro	ANSMISSION/STEERING: Hydrostatic, with both direction ugh independent right and left hand control levers, to operatorward travel speed shall be minimum 7 MPH.	_	
		Travel Speed MPH	Comply	Exception
	1.	FINAL DRIVE: There shall be one independent drive ch	nain to each wh	eel.
			Comply	Exception

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E.	<u>AXLES/TIRES</u> : Heavy-duty axles, with 10 x 16.5 Bullman Semi-Pneumatic flat proof air cushioned tires, with molded traction treads. http://www.bullman.com/index.php?option=com_content&task=view&id=1&Itemid=6				
		Tire M	ake/Model	Comply	Exception
F.	<u>PARKING BRAKE</u> : In addition to the hydrostatic transmission, which provides service brakes, there shall be a parking brake, complete with cab control.				
				Comply	Exception
G. <u>LOADER</u> : Dual arm, parallel-lift front-end loader with two double acting lit two double acting tilt cylinders. NOTE: The design of the lift arm assembly the operator's view of the rear area of the endloader when the loader arms are				arm assembly	shall not impede
				Comply	Exception
	1.	assen This	CK CHANGE ASSEMBLY: The endloader pivot subly for implements and attachments, compatible wassembly shall operate mechanically to line up, secondloader.	with existing Ci	ty equipment.
				Comply	Exception
	2.	CON follow	TROLS: The endloader lift and tilt shall be control ws:	C	•
				Comply	Exception
		a.	<u>LEFT PEDAL-BOOM</u> : Push forward to lower,	push backward	to raise.
				Comply	Exception
		b.	RIGHT PEDAL-BUCKET: Push forward to du	mp, push backy	ward to tilt back.
				Comply	Exception
	3.	SBG-	PPLE BUCKET: Each endloader purchased shall 60 60" wide scrap grapple bucket, with independent, each hydraulically operated. This bucket shall	ent right and let	ft grapple
	4.	<u>SNOW BUCKET</u> : One 72" wide snow bucket, complete with replaceable bolt-on cutting edge. No digging teeth shall be provided. To assist with light duty pulling operations, the vendor shall install one 5" long surface mount tie-down ring onto the center interior rear wall of the bucket.			
				Comply	Exception
	5.		NTERWEIGHT: A 300 lb. total counterweight par rear of the endloader.		
				Comply	Exception

BOOM LOCK: A mechanical boom lock system shall be permanently attached and

6.

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operable from the cab, to lock the raised arms for engine servicing.

			Comply	Exception			
Н.		<u>DRAULIC SYSTEM</u> : Complete system, capable of simultaractor is moving.	nneous use of li	ft and tilt, while			
		_	Comply	Exception			
	1.	<u>PUMP</u> : Minimum 11.0 gallon per minute (GPM) rating (use.	@ 2,500 PSI, fo	or continuous			
			Comply	Exception			
	2.	<u>RESERVOIR</u> : Capacity as required for continuous use, v sight glass or dipstick, and magnetic drain plug.	with City appro	ved filler, a			
			Comply	Exception			
	3.	AUXILIARY CIRCUIT: For use with a grapple bucket a implements, such as a sweeper, complete with a four-way. The lines shall be run along the boom and terminate near through hydraulic quick disconnect fittings with dust cap fittings shall be Parker 6602-8-10S and 6601-8-10S. Any each tractor shall have corresponding quick-disconnect fit incorporated into the right side hand stick control as follows:	y, self centering the end loader s. The quick d implement fun titings. The con	g control valve. pivot hinge isconnect mished with			
			Comply	Exception			
		a. <u>CONTROL</u> : Right to open grapple, left to close g to operate sweeper.	grapple or hard	left with detent			
			Comply	Exception			
	4.	<u>FILTER</u> : Minimum 4 micron rating, spin-on type, with service indicator and provis as needed to change the filter without draining the system.					
			Comply	Exception			
	5.	<u>LINES/HOSES/FITTINGS</u> : The hydraulic lines shall be minimum two-wire braided hydraulic hose where necess permanent type. Corded type hose with clamps, black iro hardware and NPT type fittings will not be acceptable, un	ary. All fitting on or galvanize	s shall be d pipe and/or			
			Comply	Exception			
I.	acces	CTRICAL SYSTEM: Complete 12-volt negative ground sessories and wiring shall comply with City Specification #3- attached.					
	- 17 3		Comply	Exception			
	1.	ALTERNATOR: Minimum 40 amp.					
		Amps	Comply	Exception			
	2.	STARTER: With cab mounted key switch.	<i>a</i> .	.			
			Comply	Exception			

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3.		<u>TERY</u> : BCI Group 31, minimum 900 CCA @ 0° I itutions are subject to City approval.	F, with threaded	d posts. Any
	Suosi	CCA	Comply	Exception
4.	LIGH	<u>HTING</u> :		
	a.	<u>HEADLIGHTS</u> : Two mounted at the front of th	e cab, on or ne	ar the roof.
			Comply	Exception
	b.	<u>TAIL LIGHTS</u> : Two red tail lights, and one floorarea of the unit.	od light, mount	ed at the rear roof
			Comply	Exception
	c.	ROOF WARNING LIGHT: Halogen rotating re Target Tech Sentry 448152, with rough duty be vibration kit, mounted in a City approved location mounted switch.	ulb, amber len	s, and 448310
			Comply	Exception
5.		KUP ALARM: Mounted at the rear within the eng	ine compartme	ent, electronic
	type,	Federal Signal 210330, 87 decibels maximum.	Comply	Exception
6.	HOR	N: Single note electric horn.	Comply	Exception
cove	erage ro	R ENCLOSURE: To include a roll-over protection of, padded operator seat, operator safety restraint safe entry into and exit from the operator seat. The cing of the engine and hydraulic system.	system, side sci	reens and grab
W	,, 561,11	ong or one ongine und injunative ejecom	Comply	Exception
1.	the ca press be a c	HBOARD CONTROLS: All implements and acceab. There shall be a fuel gauge, coolant temperature indicators, and an hourmeter installed on the datagnostic panel with a visual and audible warning ions, with engine shut-down for low oil pressure and acceptable acceptable acceptable and acceptable accep	re, electrical sy ashboard. In a system for crit	stem and oil ddition, there shall ical engine
			Comply	Exception
head	lliner, s	lly enclosed and weathersealed cab with 360° visib un visor and dome light. The cab shall tilt with the f the engine and hydraulic system. The cab shall in	ROPS structu	re to allow
			Comply	Exception
1.		<u>PR-WINDOWS</u> : The door shall be removable, equious shall be movable type.	pped with a ke	y lock. The side
			Comply	Exception

J.

K.

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		2.	WINDSHIELD WIPER: Door mounted windshield wipe	er with electric	al disconnect.	
				Comply	Exception	
		3.	<u>VENTILATION SYSTEM</u> : To provide cab heat, with di windshield defroster, and for warm weather ventilation. be provided, and a temperature control. In addition, the within the cab, one two-speed personal fan for use by the	A two speed favendor shall fu e operator	an switch shall	
	L.	vand	GINE COVER: The rear of this tractor shall have a hinged la protection to protect the rear of the engine and allow ser r shall be completely removable without the use of hand	vicing. The si tools.		
V.	subs	tantial	3: This equipment shall be painted with a City approved yet discount is available by allowing the use of the standard faithin the bid. The cab and bucket may be painted gray or be	actory color, th		
			Paint Code/Color	Comply	Exception	
VI.	<u>PARTS LISTS AND MANUALS</u> : Four parts lists and service manuals shall be furnished for all tractors purchased, to include four bucket manuals, and two complete engine service, rebuild and parts information manuals. All manuals shall be delivered to 2142 W. Canal Street, Room 216, 414-286-2719. Compliance with this paragraph is required prior to final payment.					
				Comply	Exception	
VIII. <u>TRAINING/INSTRUCTIONS</u> : Training shall be provided by factory trained personnel witto basic operation and maintenance. This training shall be minimum four hours in duration the City, to include up to 15 City personnel.				_		
			Y WALL TO SEE THE SEE	Comply	Exception	
IX.	<u>DELIVERY</u> : The following describes the procedure to be used in the delivery of the equipment and its documentation. NOTE: The City of Milwaukee is tax exempt.					
	A.	5323	OICES: All original invoices shall be sent to 2142 W. Ca 3, Room 216, attention, Equipment Acquisition & Dispo of Milwaukee is tax exempt.			
		J	1	Comply	Exception	
	C.	OWI	NERSHIP: These forms shall be filled out to reflect the ow	rner as follows	:	
			CITY OF MILWAUKEE FLEET SERVICES 2142 W. Canal Street Milwaukee WI 53233			
				Comply	Exception	

LIQUIDATED DAMAGES (LATE DELIVERY): Vendor shall deliver the skid-steer loader to

X.

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the City of Milwaukee no later than **ninety (90) calendar days from the time of receipt of the purchase order**. Failure of the vendor to meet this delivery requirement shall result in an assessment amounting to one hundred dollars (\$100) per unit for every day delivery is delayed. Said assessment shall be deducted from the City's final payment of the vendor's invoice.

Comply	Exception
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XI. <u>EXCEPTIONS</u>: Bidders shall attach information to fully explain any exceptions taken to the above specification items. Unless otherwise noted, the above are minimum requirements for the equipment described in this specification. All requirements must be met. An exception that provides a component which exceeds the minimum requirement, such as a larger horsepower engine, will usually be considered as acceptable, provided all other criteria are met. *Likewise*, an exception that provides a component which does not meet the minimum requirement will usually be considered unacceptable.